TJrr., which is a genuine Rutucet; Moluconthu E'moryq, Gray; an undoubted Simurubrecen; Kwberlinin spinnsa, Zuee., which has been referred to the same order, but is more anomalous; and finally Comotia hulurantho, which, if I mistake not, must take its place among the typical Rutacere, notwithstanding some anonalies,"

A new genus of the Lousscece, from Lower California, is described and is called sympetulein tiom its most striking and amomalous character of a troly gamopetalous corolla! In Eincuide the petals are anited at the very hase into a ring, but in this new genus they form a long tube even to the base of the spreading limb. A new genus of the IHydrophyllucesp is deseribed and dedicated to Mr. J. G. Lemmon an ardent and suecessful explorer of the Sierra Nevada region. Lemmonie Califurnicu is the name of genus and species, somewhat related to the Pluteliere, but belonging properly to the Namere. Erkionspermum Greenei is deseribed and forms an additionat tink between Echinospermum and Eritrichinn. The genera Echedioctryu Gray, and Leptoglossis, Benth., are each described with two species.

Amurictu Somrum of Science and Arts, June-Dr. Gray gives a review of the "Organogeny of the Female Flower of Ginetum Finemon," by O. Beceari, being extracted from the Italian Botanical Journal of January, 187\%. It is a disputed point whether the Chetacere should rank with the Gymnosperms or not. There seems to be an obvious and real transition from the Ginetacee to Angiospermons Dicotyledons.

The death of Alexander Braun, a distinguished German systematic botanist, is amomeed, and a short account of his life and tabors given. He was born at Ratishon, May 10, 1807, and died at Berlin, March 20, 1877. He seems to have beea one of the few systematic Irotanists left to Germany, all the distinguished botanists of the present day having turned their attention to histology. A. Bramn, Carl Sehimper, Agassiz, and Engelmann were all together at the University of Heidelberg fifty years ago. The last named is the only survivor. Braun's forte was morphology. His first important contribution tu science was amemoir on the arrangement of the seales of pine cones, publisherd in 18:30. "With this publication began the present knowledge of phyllotaxis. His work upon Mosilia, P'ilularit, and Isootes may be essentially complete. But his prolonged studies of ('hura, which began forty years ago, and the completion of which would have crowned his eareer, have probably not been finished, or brought into such form that results may be fully seeured.

Americth Vuturalist, June-Mr. W. J. Hoflman, M. D., contributes an interesting paper on "The Distribution of Vegetation in Portions of Nevala and Arizona." He divides the Flomato four classes; I the florat of the mountains, II. the flora of the foot-hills, III. the flora of the plains, IV. the flora of the salt marshes, A short table is given showing the elevation, timber line, latitude of several mountains and the elevation of tho nearest plains. An interesting abstrat of Professor Morren's communication to the Royal Academy of Belgium, on "Vegetable Digestion," is given by Byron 1). Halsted. Two interesting experiments, made by Professor Sachs upon the porosity of wood, ate noted.

Notmolama deabbata-We have just received from James Wilson, Esq., of Arkan-. sas City, Cowley Co., Kansas, some good specimens of this rate and highty prized fern. Mr. Wilson says that he has just found it in great quantity and will take pleasure in supplyng any of our readers with specimens next autumn, when the fronds are in fruit. At present he finds on many of the tufts three kinds of fronds; the dead ones and the almost perfect ones of last year, with the tender little half-grown fronds of this season.J. M. C.

Notes.-This spring, while collecting stylophorum diphyllum, Nutt., I noticed a flower with only two petals. As the petais are very fugacions, I supposed, at first, that
two had fallen, but close examination showed that two were all the corollat rere had. Three of the normal four ware mated into ome and the lines of foralescence were dis. tinctly visible. The fourth petal ocempied its attural position. It is quite eommon to find this plant with threr laves; inded, it is more plentifnl than the two-leaved form.

A very large form of or alis strictu, L. grows at Chain Mill Fill, near Hanover The plants are about a loot and a half high amd cery leafy and branching. The leaflets are fully an inch broad and each one is margined with dark porple. The corolla, instem of being "small" is an inch broad and the base of the limb is penciled with purple lines: The whole plant is clothed with long, solt hairs, villous-pubescent.

Jeflerson Connty has been mentioned before as growing some large weeds in the Composite line and we come with another confirmation of its ahility in this direction.
 to be very full of heads. Curiosity getting the better of me, I resolved to count them. At the end of three quarters of an hour, I had hroken off the last one, the whole num ber of hertls being 3290 :

Taking an average of: 20 flowers to the lead (as they would easily reach that momber) we would have 68800 Howers produced by a single plant. Suppose that only onehalf of the akenes came to perfection and one-tenth of these were carried to stritathe conditions lior growth, what an immense power of propagation did this one specimen possess. The plant was only 8 feet high, and $\pi^{-3}$ inches in ciremmerence at the ground.

As far as 1 know, Trimble (o., Kentucky, has fornished the champion Arixemue (A. triphyllum, 'Jorr.). I give some of the measurements.-

Height 30 inches; Leathets, 10 inches long by 9 , broad; Spadix, 21 inches loutz:
 cumference. C:an any one tell us of a larger one ?
C. R. Bahnen, Mudinom, Ind.

Choss-Fenthazation of Amistolochla.-Mr. H. (. J. Inbbard, now traveling in Jamaica, has eommmaicated to a western newspaper some interesting notes on the nataral history of the island. His observations on Aristulochen are fully confirmatory of the stmblies of others in the cease of Aristolurhin clemetitix. "l have hat an oppertu-
 here the 'John Crow, or 'carrion flower,' from the putrid stench whieh it exhales. This flower is one of the largest known. The the or howl, about a foot long as it hangs from the vines, makes a very good imitation of the Dutchman's china pipe, but the month of the bow turns forward and expands eight or ten inches in elianeter, and from the lower edge of this dangles a slenter tail, about a foot long. The whole flower is spotted green athl purple, like a diseased liver. Notwithstanding its vile oflor and uncany look, it is the most interesting ol flowers. The thbe is divided into three ehambers by eonstrictions and ralves furnished with backward-pointing bristles, the whole forming a trebly gharded fly-tral). The outer rhamber alone gives ont the earrion odor, attratet by which, insects enter, and finding themselves deceived my to eseape, but the loug resurved bristles, which line the walls, ontange them when they turn back, hat fivor their progress bhongh the seond trap and into the sedond ehamber beyond. Finally they fime their way throngh the thime and last trap, into the third chamber. And here you will find small fies and beetles by do\%ens, il you opren the bloommg flowers. Now what is the ohject of this evitlent contrivance: Thar fower is not insectivorous. The entrajped insects are always found alive and ing gond condition, no dead ones in any of the chambers. In litet, the last one, which they must eventually reach, and which also contains the floral organs, seems to have heen especially contrived for their combort and comvenience. It is spations, umenomblered with bistles,
except just about the entrance, where a pertect lorest of them remblers escape into the preceding ehamber impossible, and morenver about the floral organs an abondance of nectar supplies them with food. 'There is a tine stmmhing-h)ock in the way of thebeliever in the laws f cross fertilzation. As lrotessor (iray would saty, this phant seems to be formed on the plan of 'how not to do it. Skepties have pointed trimmphantly to the Aristolohia as a plant which, with the momost ingenuity, has provided for insuring selfor elose firtilization. They had opened flowers in full bloom, found the anthers pouring forth pollen, and the imprisoned insects skipping abont the inner chamber completely dusting themselves and its walls with the yellow grains. The stigmatic surfice, too, had long been fertilized, its lobes had closed, and having performed its office the pistil was withering away. The lact of seffeferilzation in this plant seemed proved. Natme, howerer, does not disclose all her seerets on the first inspection, and a more carefulstady of this flower in all its stages will show that its wonderful mathinery is contrived shely for securing cross-fertilization through the agency of insects, and that it cannot fertilize itself. In fact the anthers and stigma in any Hower are never open at the same time. The mystery is explaned when we examine the flowers that have biossomed and are withering: the trap is open flal the insects rell flown. Each of the three constrictions, which were at first so narow as only to admit of a small insect pushing its waty between the hatrs, is now graping widely open, and all the bristles so wilted and flaceid as to offer no impediment to their escape. Now tmong to a bud just horsting into flower, we find the bristles rigid and the trap set, The stigma is now widely open and ready toreceive pollem, bat the anthers tighty closed and their pollen quite erren. Each Hower has then a double duty to perform; first, to catch insects which have been liberated by some thower prevously in bloom, and to effect its fertilization with the pollen which they bring; second, to feed and hold them there until its stigmathas elosed and its anthers burst. And, finally, it opens its trap and seads them forth with unimpared vigor and a fresh load of pollen for the next flower that blooms." - Inerican Naturatast, M/!!.

Botanical Nomexchaterb.-There are two questions sometimes agitated with respect to the naming of plants. One is, as to the manner of writing specific names, the other, as 0 the kind of names to be given. The writer would heartily endorse the general custom of botanists with regard to the first question, and would deprecate their custom with regard to the second. Some botanists, after the manner of zoulogists, make all their specitic names begin witha small letter. Whether a species is mamed tor a man, country, or any thing clse with a proper name it mast begin with a small letter, thus destroying every remnant of resemblance it might have borne the thiginal mame. On what grounds such a rule wats made, it would be hard to say. 'lhe rules of language are very plain on such a point and they shomld not be violated for trivial reasons. It is to the credit of botanists in general that they have wot yet adoped this innovation whinh makes science ungrammatical. But in regard to the seend point. Can we not have a little relief from the proper names that in most unstinted lavishness are applied to spereies?. What is the use of them, or what do they mean! If a country is to be honored by a botanical name, bet it be lomomerd onte and then let it retire, but the endless processions of Cummensis, C'mroliniam, Virgiminm, etc., are a litt, monotonous, to say the least of it, especially when the names are not alo ays suitable. Such names may commemorate the place foom wheme the fir- sperimens were obtained for deseription, but what peculiar appropriateness have they atter firther discovery. This is the very diftically of naming a suceies from any lowaty. While such a mame may be suitable for a time, further diseoveris's may pove the phat to be of vory wi.le range and may often find it in greater abundance than at the first published locality. Sut the names of persons are used just as lavishly. It is extremely suitable to dedicate one species or two to diligent

